PROCEEDINGS OF THE BROWN COUNTY LAND CONSERVATION SUBCOMMITTEE

Pursuant to Section 18.94 Wis. Stats., a regular meeting of the **Brown County Land Conservation Subcommittee** was held on Monday, February 22, 2016 in Room 161, UW Extension, 1150 Bellevue Street, Green Bay, Wisconsin.

Present: Chairman Dantinne, Supervisors Bernie Erickson, Tom Sieber, Dave Kaster, Dave Landwehr and

Absent: Citizen Rep Jeff Ronsman

Also Present: Mike Mushinski, Jon Bechle, Brent Peterson and other interested parties.

I. Call Meeting to Order.

The meeting was called to order by Chair Norb Dantinne at 6:00 pm

II. Approve/Modify Agenda.

Motion made by Supervisor Sieber, seconded by Supervisor Kaster to approve. Vote taken. <u>MOTION</u> <u>CARRIED UNANIMOUSLY</u>

III. Approve/Modify Minutes of January 25, 2016.

Motion made by Supervisor Kaster, seconded by Supervisor Erickson to approve. Vote taken. <u>MOTION</u> CARRIED UNANIMOUSLY.

Comments from the Public. None.

1. Departmental Openings Summary.

Motion made by Supervisor Landwehr, seconded by Supervisor Sieber to receive and place on file. Vote taken. <u>MOTION CARRIED UNANIMOUSLY.</u>

2. Director's Report.

Land and Water Conservation Technician Brent Petersen provided a PowerPoint (attached) re: Farm Demo Update, 2015.

Assistant County Conservationist John Bechle provided handouts (attached) regarding 2015 Wildlife Damage Abatement and Claims Programs (WDACP) Update. He informed that most of the damaged occurred was by deer and geese, Brown County had more goose damage than deer damage. Depending if conditions were good for the geese during migration, and if the crops were still standing, they could do quite a bit of damage. Last year they had a wet fall and the soybean fields had water standing which drew the geese right in. They were eating the beans. They can cause some damage on new seeding of alfalfa. And there were times of the year when they were nesting and caused problems on the greens; soybeans, wheat, corn, alfalfa. Crop prices were higher in 2014 than 2015. However, the actual claim amounts were lower in 2015 than 2014. Also noted on the handout was the info regarding Wildlife Damage Abatement and Claims Program (WDACP) shooting permits for damage situations and nuisance situations. These were 5-year permits obtained by farmers for crop damage.

Regarding the City of Green Bay Deer Management Program, the State of Wisconsin changed the law a couple years ago with archery and bow hunting and it gave the city the authority within the City of Green Bay to establish the hunting rules. What Brown County did back then was enter into a memorandum of understanding to have the county properties within the City of Green Bay be managed under that program. Hunters applied and were selected through that program. There were 13 deer harvested on the Brown County Farm property site. Landwehr questioned, in order to be eligible for

these programs, farmers had to open up their land to hunters, Bechle responded, yes. Even though that was a requirement of the damage program, there were areas where hunting by archery could not be done. Bechle also pointed out the \$435.15 under assessed damage, there was no eligible claims as the program had a \$500 deductible.

An additional handout was provided (attached) regarding County Deer Advisory Council, Bechle informed this was something the state started last year, there will be meetings in March and April. There were councils in every county in the state. The handout was the template of the agenda. Brown County's meeting was tentatively scheduled for March 23rd at Barkhausen starting at 6:30pm. The DNR will advertise it.

No action taken.

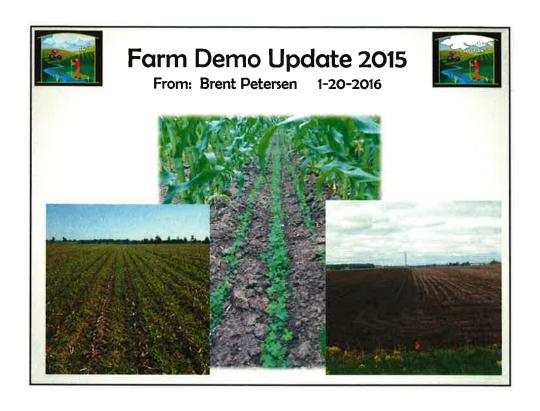
Other

- 3. Such Other Matters as Authorized by Law.
- 4. Adjourn.

Motion made by Supervisor Erickson, seconded by Supervisor Landwehr to adjourn at 6:35 p.m. Vote Taken. <u>MOTION CARRIED UNANIMOUSLY.</u>

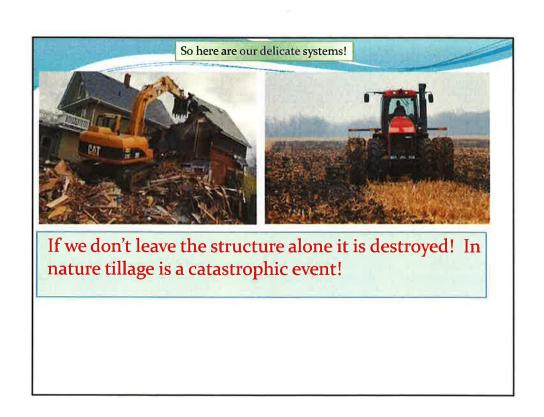
Respectfully submitted,

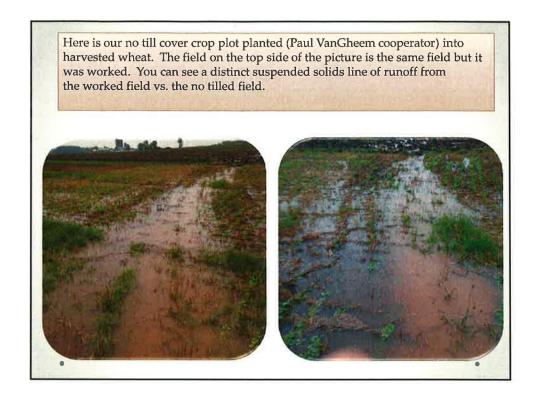
Alicia A. Loehlein Recording Secretary

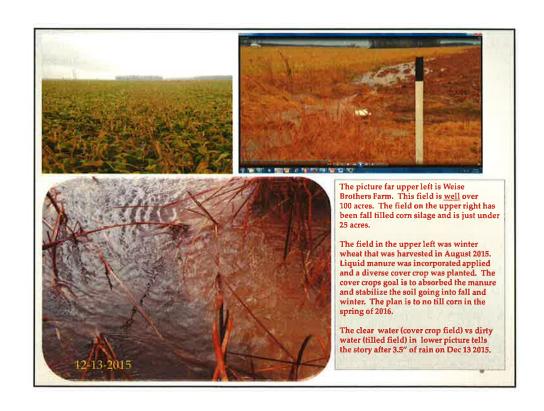








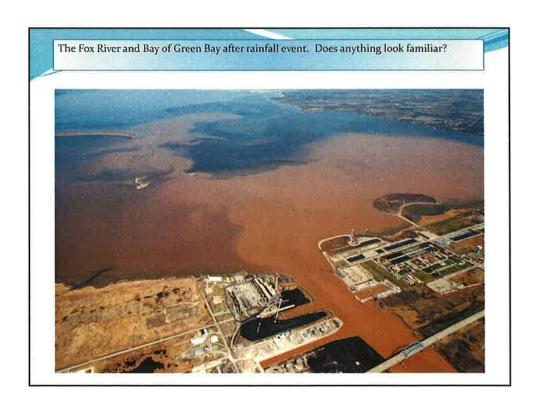


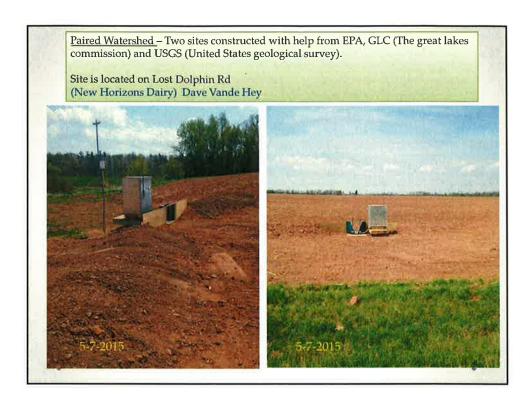


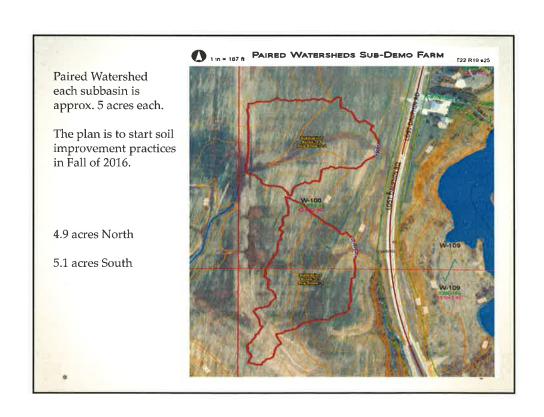
The field on the right, (VanWychen Farms) is a alfalfa field that will have no till corn in 2016. The field on the left, (Neighbor) is a field that was conventionally tilled and is nearing corn silage maturity.

Even after the corn is almost mature; you can see the suspended soil particles in the water. The field on the right has soil structure, which minimizes suspended solids in the water.

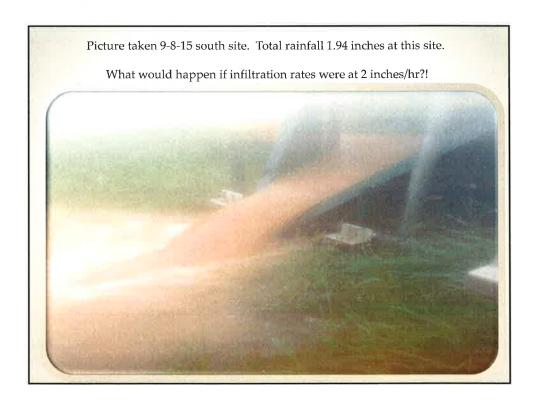
The field on the right (in essence) has been no tilled for 3 years already. The timing is right to no till corn in 2016.

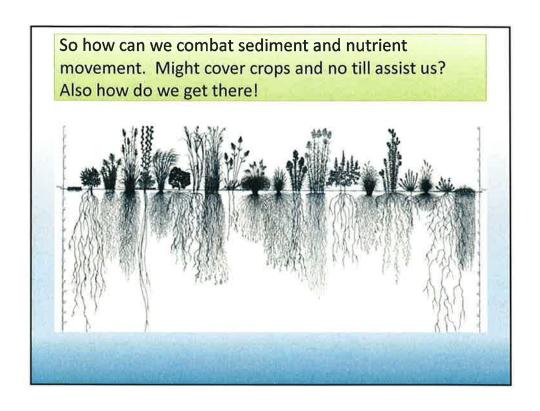


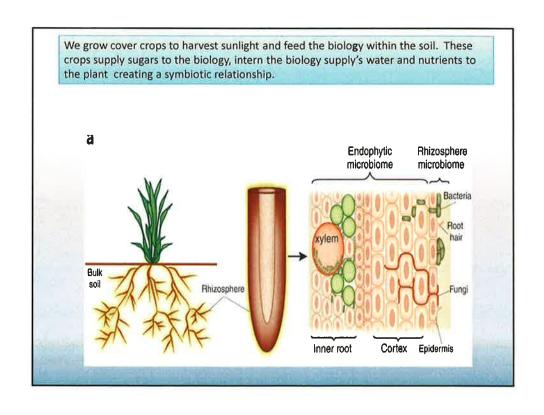












Cover crops supply sugars, proteins, and exudates (signaling compounds) to the soils biology. These different forms of biology create a natural glue call glomalin (mainly from mycorrhizal fungi). This glue helps hold soil particles together minimizing sediment movement.

* An example of this is rhizobia and nodulation on alfalfa.

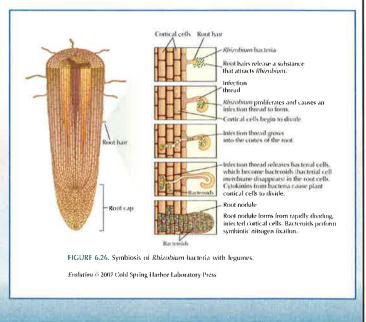


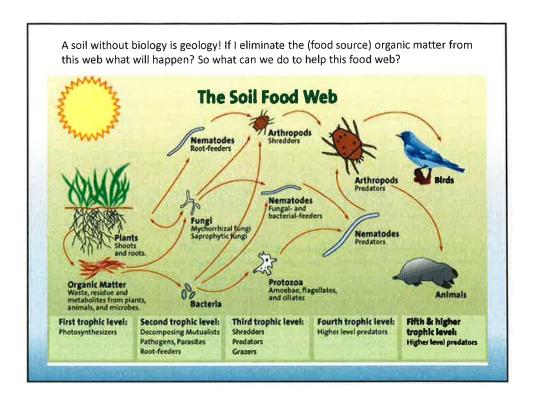
Ex. Here is an example of just one of the symbiotic relationships that goes on with the root of an alfalfa or any legume.

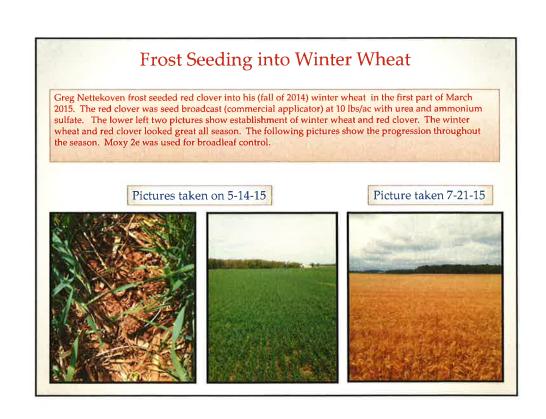
The Rhizobium is attracted to a signaling compound put out by the alfalfa root. The rhizobium infect the root and the creation of nitrogen producing nodules begins.

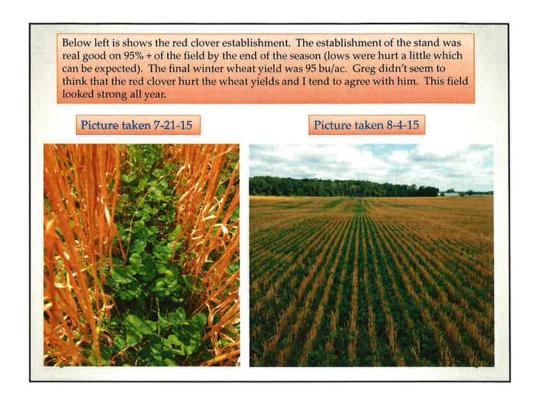
If Rhizobium aren't present how would that affect legumes?

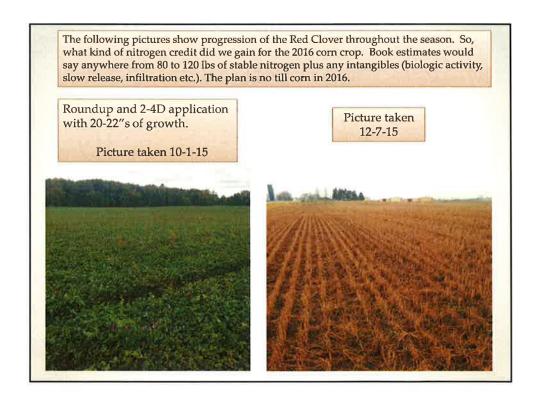
My point is these systems work together

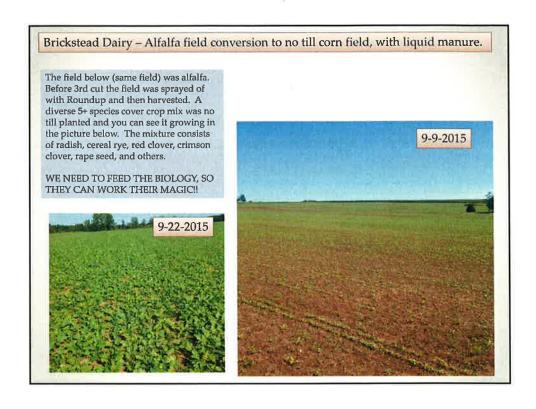


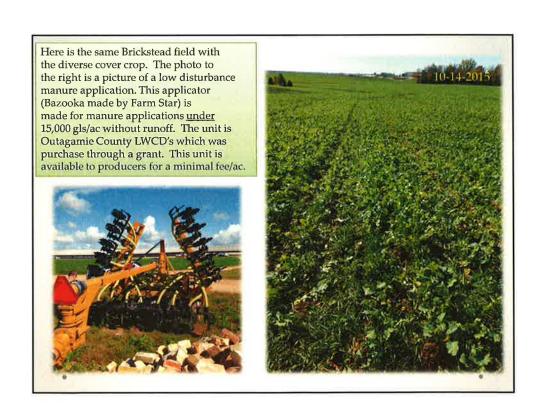












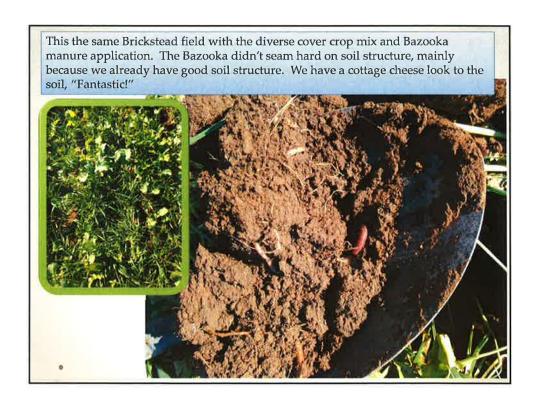
Here is soil from the same field as the previous slide. This soil is really coming alive! We have all the things the biology needs to feed itself! Keep in mind we had an application of 10,000gls of manure, (Bazooka applicator) without destroying the soil structure or killing the soil biology.

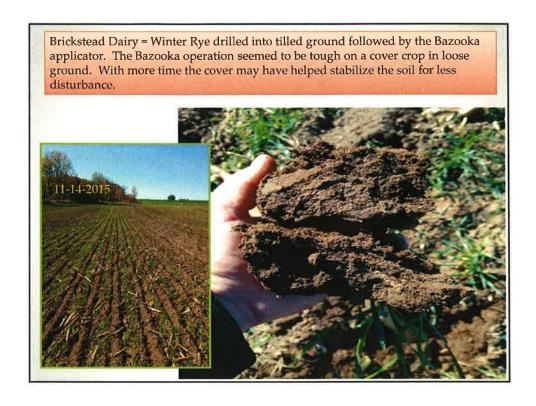
We have live roots pumping sugars and proteins down to root system; the significance of that, is the roots exude these sugars and proteins out of the root system. Plus we have Mycorrhizal fungi (yellow arrow) which help break down dead material in the soil and supply digestate to earthworms etc. Something not always seen in conventional practices.

Jill Clapperton, a soil health consultant and co-founder of Rhizoterra International in Florence, Mont.

Clapperton says. "Fungi loosen up the complex carbon structure in the material and make it easier to eat. They need a high-quality food stock with carbohydrates and protein, and the addition of nitrogen-rich legumes balances their diet and increases their activity."









Manure application practices tried:

Bazooka low disturbance applicator by Farmstar = The pictures below show the capability of this unit. This unit will apply liquid manure up to 15,000 gls/ac. The application below is at 12,390 gls/ac. Manure is staying in place. Odor issues minimized greatly!



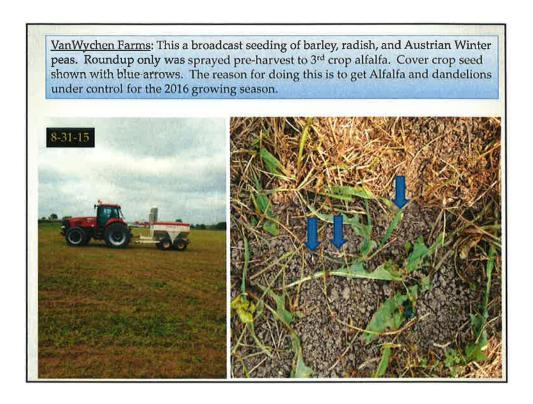






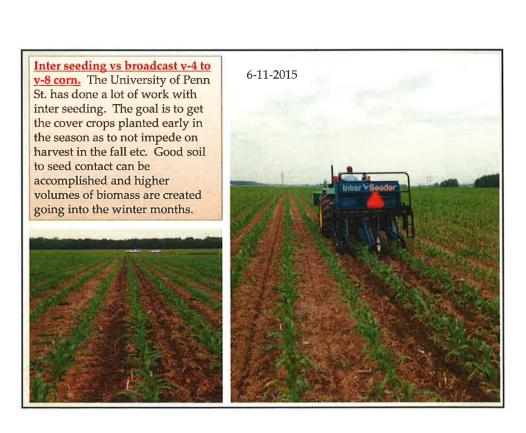


Brickstead: Challenges of surface manure applications after cover crop establishment. The two pictures above are of the same field. This field was tilled before planting with Winter Rye. This field was planted after corn silage. The surface manure didn't affect the cover crop but truck tracks sure did, (upper left picture). Depending on what we are looking for,







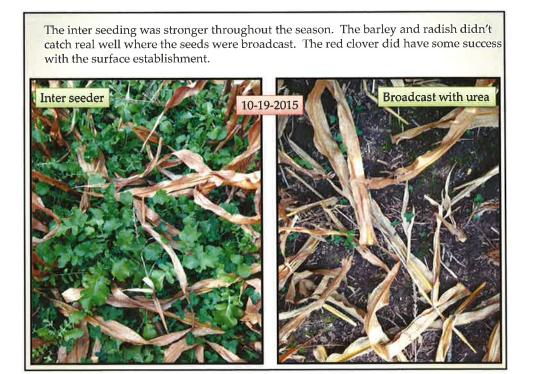


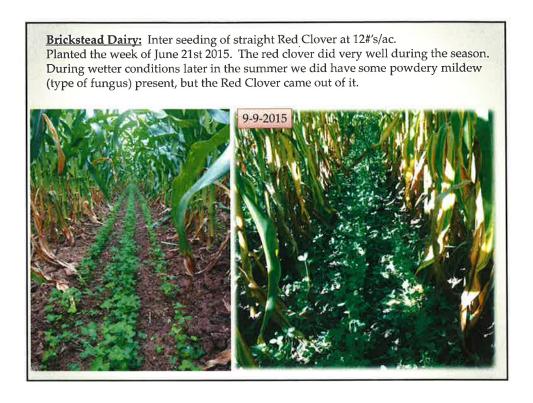
VanWychen Farms cover crop inter seeded from previous slide. Below we have a combination on Barley, Radish, and Red Clover. The barley matured and died out, in the middle of August without a lot of biomass.

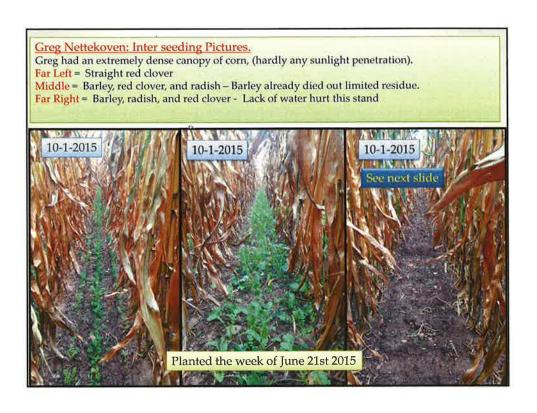
Vanwychens same field as 2 row inter seeding. Broadcast planted red clover, barley, and radish less than 1 week later with urea. The difference is significant.

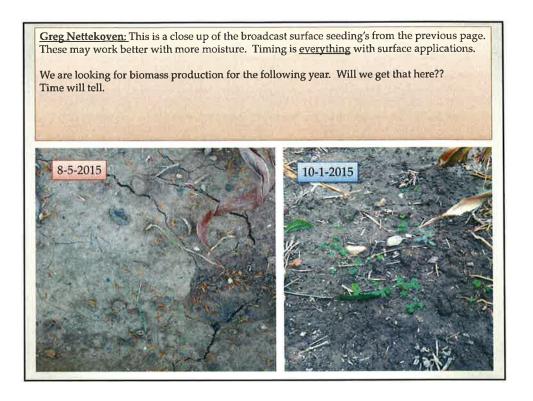


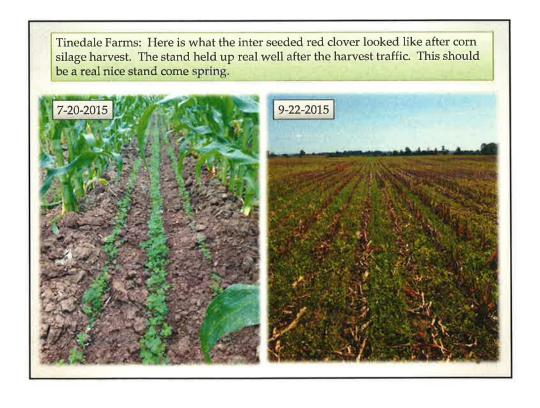






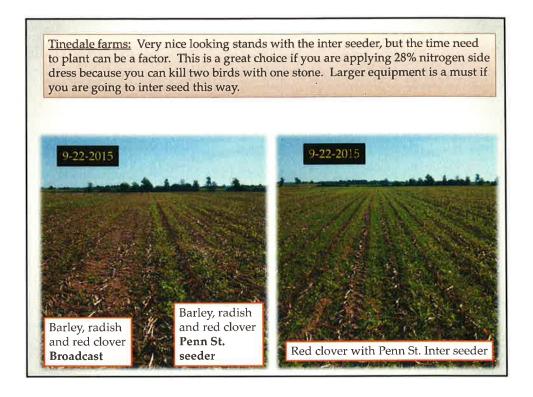


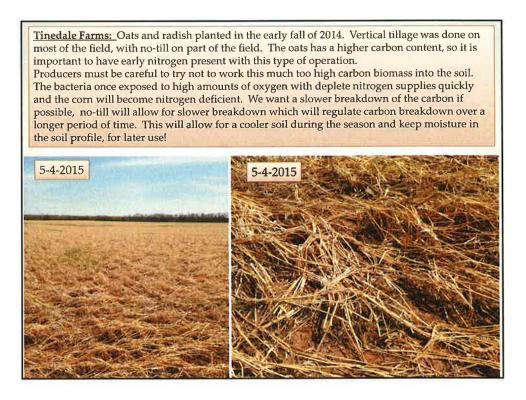












One of the key issues to no-till in the past, was row closer for good soil to seed contact. Tinedale farms has the row closer equipment to do the job. With proper equipment the soil closing issue can be <u>greatly</u> minimized.

Below are pictures of vertical tillage vs no-till. The closer was great in both plantings which is the key to yield down the road!





Figure A: Scott is planting down the divide in the field of vertical till on the left and no till on the right.

Figure B: This shows the corn establishment one month later. The stand is off to a great start. We are looking for no gaps between plants and even emergence for the best stand. Field conditions change <u>daily</u> so we need to pay attention to the nitrogen program <u>especially</u> in the first years of this type of system. Since our soils are not conditioned to this type system yet, we need more nitrogen up front to help with the soils conversion.

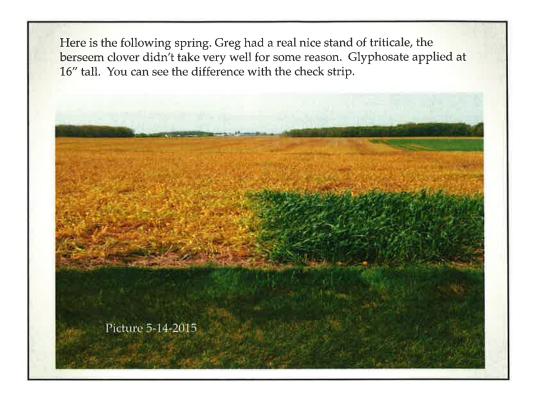


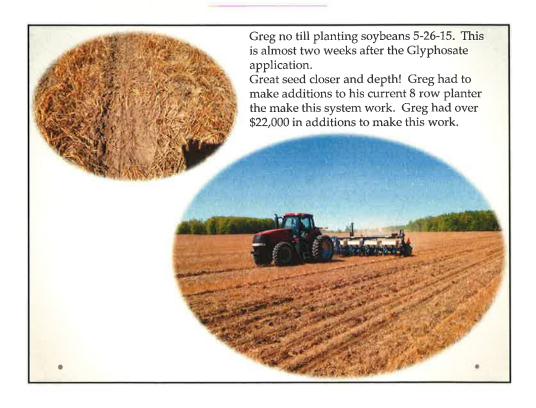


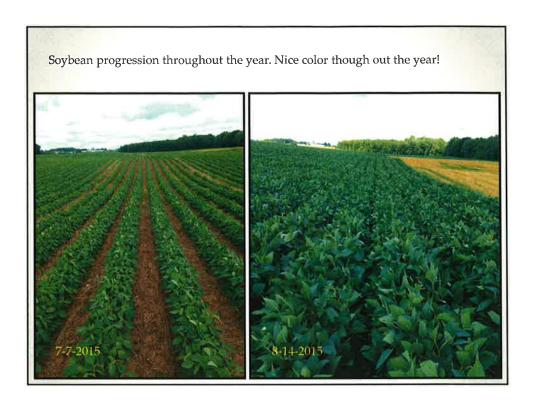




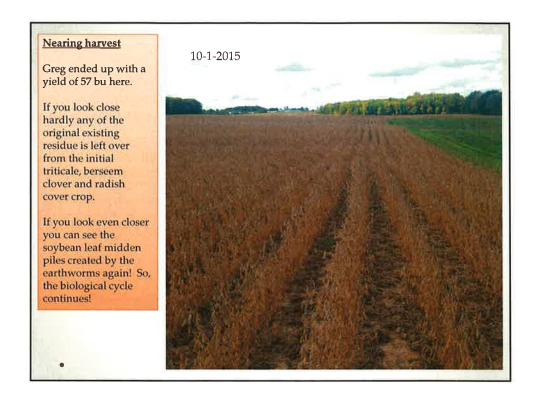
Greg Nettekoven Triticale, berseem clover and radish's planted in the Fall of 2014. This cover crop mixture follows winter wheat. This was the beginning of no till with cover crops as part of the farm demo network.

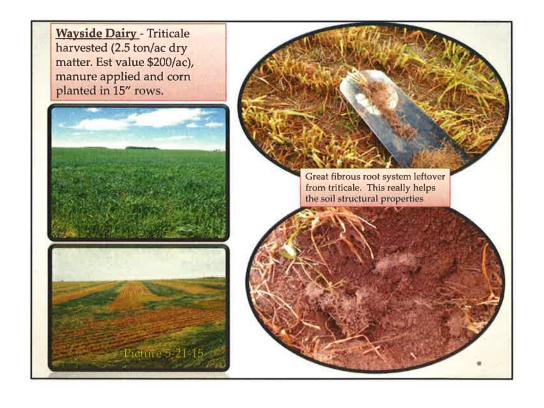


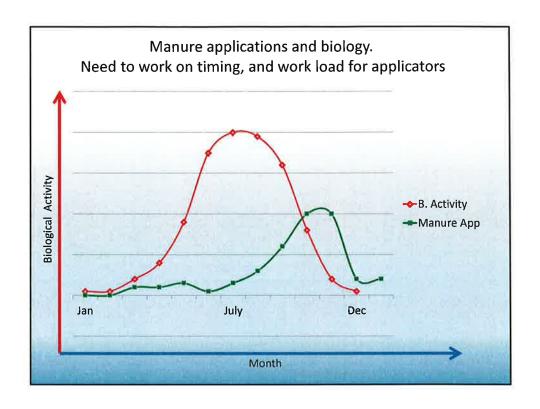


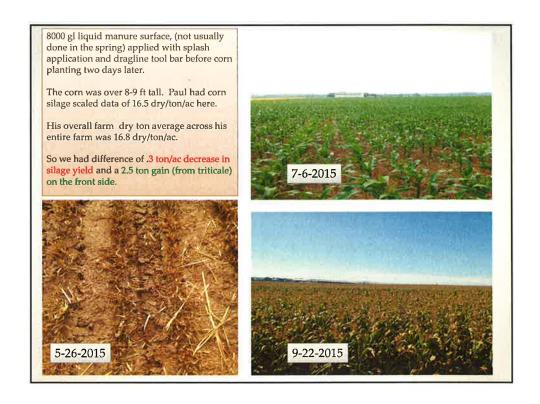


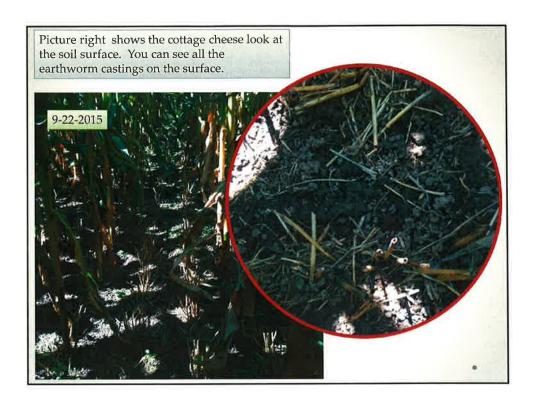
















2015 Wildlife Damage Abatement and Claims Program (WDACP) Update

*2015 WDACP Claims

16 Participants; 7 Claims filed

2015 COUNTY CROP DAMAGE REPORT

Crop	No. of Claims		Assessed Damage		Appr	:T e 5	s Damaged Acres			Loss on Yield			
Alfaifa	113. 37 3121113		5		11,595		365	,4	_	148		115.95	
Com Grain			3	54	1,029.2		99.8			12.5		1,151.2	
Other	1			\$3,451.5		31			.5		19.		
Boybeans		4			\$8,952.2		138.5			34		1.053.2	
Total				528	528 027.9		532.7			199.5		2,339.85	
Assessed Damage	Eligible Claims	Status	Acres Appraised	Acres Damaged	Deer Damage	Deer Acres	Bear Damage	Bear Acres	Turkey Damage	Turkey Acres	Goose Damage	Goose	
\$1.096.5	\$596.5	PENDING	15	3	\$0	0	\$0	0	\$0	0	\$1,096.5		
\$2,910	\$2.410	PENDING	83.9	37	\$0	0	\$0	0	\$0	0	\$2,910	3	
\$3,451.5	\$2,951.5	PENDING	31	5	\$3,451.5	5	\$0	0	\$0	0	\$0		
\$3,118.5	\$2,618.5	PENDING	77	20	\$2,426.68	12.65	\$0	0	\$227.82	1.75	\$464	5.	
\$8,460.2	\$7,368,16	PENDING	268.3	89	\$3,040.2	12	\$0	0	\$0	0	\$5,420	7	
\$8,556.05	\$7,444.84	PENDING	130.5	40	\$0	0	\$0	0	\$0	0	\$8,556.05	4	
\$435.15	\$0	PENDING	27	5.5	\$435.15	5.5	\$0	0	\$0	0	\$0		
	\$23,389.5		632.7	199.5	\$9.353.52	35,15	\$0	0	\$227.82	1.75	\$18,446.55	162	

*2015 WDACP Shooting Permits

Deer – 5 permits, 37 deer harvested

Turkey – 1 permit, 8 turkeys harvested

*2015 City of Green Bay Deer Management Program

13 deer harvested on Brown County Farm property sites

County Deer Advisory Council

March 2016 Meeting Agenda



The council will review and act on items listed on this agenda.

ORDER OF BUSINESS

- 1. Organizational Matters Chair
 - a. Call to order
 - b. Roll call
 - c. Agenda approval or repair
 - d. Review the CDAC Charter
 - e. Review meeting and discussion etiquette
- 2. Review of 2015 deer season results and quota setting process Wildlife liaison
- 3. Public appearances/comments

(Citizens who wish to speak to the council must sign up at the meeting prior to the beginning of the meeting. Comments will be limited to 3 minutes for each speaker.)

- 4. 2016 Deer Season Recommendations
 - a. Determination of preliminary quota and permit recommendations
 - b. Determination of additional season options, if available, in the county.
 - c. Complete Preliminary 2016 Deer Harvest Quota and Permit Recommendation Form
- 5. County specific issues/concerns
- Council member matters
- 7. Adjournment

County Deer Advisory Council Charter

[•] Gather public opinion on deer populations and goals, antlerless quotas and herd management strategies.

[•] Review and consider scientific metrics on deer herd trends, impacts to habitat and agriculture and human-deer interactions.

[·] Provide the department with recommendations on deer population objectives, antierless quotas and herd management strategies.